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NPIC/TDS/D-726-67
3 March 1967

Declass Review by NGA.

MEMORANDUM FOR THE RECORD

SUBJECT: Modification of the [] Fiber Optics Viewer and
Point Transfer Device.

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1. In an attempt to become familiar with the fiber optic viewer and point transfer device modifications which are being assigned to me, I have been reviewing the proposed work to be performed and cost quotations. My understanding of the three basic tasks to be performed is as follows:

a. The work area with which I am most familiar is that of digitizing the viewer to convert it to a comparator (excluding the corrector cams). Assuming one of the [] systems purchased for the RIC/1 is to be furnished [] as GFE, my understanding of the work to be performed to digitize the viewer is as follows:

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(1) Add an on/off power switch for the [] components, excluding the on/line synchronizer, which is to remain on at all times.

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(2) Mount, wire in, and label four preset and four reset switches to the [] rack. External connecting points are provided on the [] equipment.

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(3) Add a cooling fan to the [] rack.

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(4) Respace the [] components within the rack to provide air space between each rack mount unit to permit better cooling.

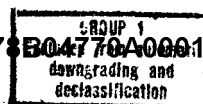
(5) Add a support arm bracket and panel housing to the left hand side of the [] rack to mount the [] control panel.

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(6) Supply and mount optisyn shaft encoders and modules to provide a one micron pulse.

(7) Supply and install signal and power cables between the shaft encoders and counters. The length of the power supply cable in dependent on the [] head used.

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(8) Perform alignment to the optical train and platen as required to keep the image in sharp focus throughout the format.

X1 2. After deducting the purchase costs, G&A, and fee for the [] equipment to be GFE from [] the remaining work to be performed, as described above, the [] is considered to be at least twice what the job should cost us. In addition, it appears that a large number of engineering hours are required to essentially duplicate what has already been done on the Point Transfer Device.

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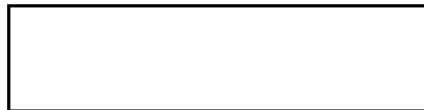
X1 a. The second work area proposed is that of providing a power assisted film transport for the 552A viewer and the Point Transfer Device. It is my understanding that this work would be essentially a duplication of the transport currently being installed on the IAS viewer to be delivered in the next couple of months, except that it would be a retrofit with the final installation at NPIC instead of at []. The contract price for the first power assist unit was [] including design. On 9 September 1966 [] to modify one unit or [] to modify two units at the same time. In January they were asked to resubmit their bid based on two machines but not to work on both machines at the same time so that we had one machine operational. On 18 January 1967 they submitted the new bid and the price rose to []. After reviewing the price estimates, there are some disturbing factors in terms of man hours and purchased parts to produce essentially carbon copies at a higher unit cost.

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X1 b. For the third work area proposed, to provide correction cam adjustments to the encoders, there is insufficient information available to evaluate the price quotations on the proposed correction. [] has not furnished a work statement for the proposed work, however, they had previously discussed it in conjunction with the Point Transfer Device.

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Support Systems Branch, TDS/DS

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